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Angle Measurement Quiz Answer Key PDF

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Which of the following angles are part of a full rotation? (Select all that apply)

A. 90 degrees ✓

B. 180 degrees ✓

C. 270 degrees ✓

D. 360 degrees ✓

Which angle is greater than 180 degrees but less than 360 degrees?

A. Acute

B. Right

C. Obtuse

D. Reflex ✓

What is the sum of complementary angles?

A. 90 degrees ✓

B. 180 degrees

C. 270 degrees

D. 360 degrees

What tool is commonly used to measure angles in degrees?

A. Ruler

B. Protractor ✓

C. Compass

D. Scale

Which of the following angles is an acute angle?

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A. 95 degrees

B. 180 degrees

C. 45 degrees ✓

D. 270 degrees

How many degrees are in a complete angle?

A. 90 degrees

B. 180 degrees

C. 270 degrees

D. 360 degrees ✓

What is the measure of a right angle?

A. 45 degrees

B. 90 degrees ✓

C. 180 degrees

D. 360 degrees

Discuss the real-world applications of angle measurement in engineering.

Angle measurement is crucial in engineering for designing structures, ensuring stability, calculating forces, and creating precise mechanical parts. It is also used in navigation and robotics.

Explain why understanding angle properties is important in geometry.

Understanding angle properties is essential in geometry for solving problems related to shapes, calculating unknown angles, proving theorms, and understanding the relationships between different geometric figures.

Explain the difference between complementary and supplementary angles.

Complementary angles are two angles whose sum is 90 degrees, while supplementary angles are two angles whose sum is 180 degrees.

What is the significance of using radians in trigonometry?

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Radians provide a natural way of measuring angles in terms of the radius of a circle, which simplifies the mathematical expressions and calculations in trigonometry, especially in calculus.

How can you construct a 90-degree angle using a compass and straightedge?

To construct a 90-degree angle, draw a straight line and mark a point on it. With a compass, draw an arc from the point intersectting the line. Without changing the compass width, draw another arc from the intersection point. Draw a line from the original point through the intersection of the arcs to form a 90-degree angle.

Which of the following angles are considered obtuse? (Select all that apply)

A. 120 degrees ✓

B. 45 degrees

C. 95 degrees ✓

D. 180 degrees

Which angles are considered supplementary? (Select all that apply)

A. 60 degrees and 30 degrees

B. 120 degrees and 60 degrees ✓

C. 90 degrees and 90 degrees ✓

D. 45 degrees and 135 degrees ✓

In which systems can angles be measured? (Select all that apply)

A. Sexagesimal ✓

B. Decimal

C. Centisimal ✓

D. Binary

What is the measure of a straight angle?

A. 0 degrees

B. 90 degrees

C. 180 degrees ✓

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D. 360 degrees

Which of the following are properties of vertical angles? (Select all that apply)

A. They are equal in measure ✓

B. They are complementary

C. They are formed by two intersectting lines ✓

D. They are adjacent

Which of the following is not a unit of angle measurement?

A. Degree

B. Radian

C. Meter ✓

D. Gradian

Describe how a protractor is used to measure an angle.

To measure an angle using a protractor, place the midpoint of the protractor (the origin) at the vertex of the angle, align one side of the angle with the baseline of the protractor, and then read the degree measurement where the other side of the angle intersects the numbered scale.

Which of the following are true about radians? (Select all that apply)

A. One full circle is 2π radians ✓

B. Radians are used mainly in trigonometry ✓

C. Radians are larger than degrees

D. One radian is approximately 57.3 degrees ✓

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